

## Contents

*Abstracted/Indexed in/Cited in: API Abstracts; Chemical Engineering and Biotechnology Abstracts; Catalysts & Catalysis; Chem Inform; Chemical Abstracts; Current Contents: Engineering; Current Contents: Engineering Index; Current Contents: Physical, Chemical & Earth Sciences; Engineering, Technology & Applied Sciences; Metals Abstracts; Research Alert; SCISEARCH; Science Citation Index; Theoretical Chemical Engineering Abstracts. Also covered in the abstract and citation database SciVerse Scopus®. Full text available on SciVerse ScienceDirect®*

Glycerol oxidation with gold supported on carbon xerogels: Tuning selectivities by varying mesopore sizes E.G. Rodrigues, M.F.R. Pereira and J.J.M. Órfão (Portugal) . . . . .	1
Supported Pd catalysts for solvent-free benzyl alcohol selective oxidation: Effects of calcination pretreatments and reconstruction of Pd sites X. Wang, G. Wu, N. Guan and L. Li (PR China) . . . . .	7
Synthesis of cerium-doped MCM-41 for ozonation of <i>p</i> -chlorobenzoic acid in aqueous solution J. Bing, L. Li, B. Lan, G. Liao, J. Zeng, Q. Zhang and X. Li (China). . . . .	16
Electrocatalytic oxidation of ethanol on Pt, Pt-Ru and Pt-Sn nanoparticles in polymer electrolyte membrane fuel cell—Role of oxygen permeation A. Jablonski and A. Lewera (Poland) . . . . .	25
Semiconductor oxides-sensitized photodegradation of fenamiphos in leaching water under natural sunlight J. Fenoll, P. Hellín, C.M. Martínez, P. Flores and S. Navarro (Spain) . . . . .	31
Solar photocatalysis treatment of phytosanitary refuses: Efficiency of industrial photocatalysts G. Plantard, T. Janin, V. Goetz and S. Brosillon (France) . . . . .	38
Investigation of iron oxide reduction by ethanol as a potential route to produce hydrogen M.G. Rosmaninho, F.C.C. Moura, L.R. Souza, R.K. Nogueira, G.M. Gomes, J.S. Nascimento, M.C. Pereira, J.D. Fabris, J.D. Ardisson, M.S. Nazzarro, K. Sapag, M.H. Araújo and R.M. Lago (Brazil, Argentina). . . . .	45
MO <sub>x</sub> (M = Mn, Fe, Ni or Cr) improved supported Co <sub>3</sub> O <sub>4</sub> catalysts on ceria–zirconia nanoparticulate for CO preferential oxidation in H <sub>2</sub> -rich gases Z. Zhao, X. Lin, R. Jin, G. Wang and T. Muhammad (China). . . . .	53
Gas-phase hydrodeoxygenation of guaiacol over Fe/SiO <sub>2</sub> catalyst R.N. Olcese, M. Bettahar, D. Petitjean, B. Malaman, F. Giovanella and A. Dufour (France) . . . . .	63
Photo-chargeable and dischargeable TiO <sub>2</sub> and WO <sub>3</sub> heterojunction electrodes H. Park, A. Bak, T.H. Jeon, S. Kim and W. Choi (Republic of Korea) . . . . .	74
One-step, hydrothermal synthesis of nitrogen, carbon co-doped titanium dioxide (N,C–TiO <sub>2</sub> ) photocatalysts. Effect of alcohol degree and chain length as carbon dopant precursors on photocatalytic activity and catalyst deactivation D. Dolat, N. Quici, E. Kusiak-Nejman, A.W. Morawski and G. Li Puma (Poland, UK) . . . . .	81
Carbon spheres supported visible-light-driven CuO–BiVO <sub>4</sub> heterojunction: Preparation, characterization, and photocatalytic properties W. Zhao, Y. Wang, Y. Yang, J. Tang and Y. Yang (China) . . . . .	90
A superior Ce–W–Ti mixed oxide catalyst for the selective catalytic reduction of NO <sub>x</sub> with NH <sub>3</sub> W. Shan, F. Liu, H. He, X. Shi and C. Zhang (PR China) . . . . .	100
Finding the best Fe <sup>2+</sup> /Cu <sup>2+</sup> combination for the solar photoelectro-Fenton treatment of simulated wastewater containing the industrial textile dye Disperse Blue 3 R. Salazar, E. Brillas and I. Sirés (Chile, Spain) . . . . .	107
Gold catalysts supported on nanostructured Ce–Al–O mixed oxides prepared by organic sol–gel E. Smolentseva, A. Simakov, S. Beloshapkin, M. Estrada, E. Vargas, V. Sobolev, R. Kenzhin and S. Fuentes (Mexico, Ireland, Russia) . . .	117

(Contents continued on page I)

## SciVerse ScienceDirect

Full text of this journal is available, on-line from **ScienceDirect**. Visit [www.sciencedirect.com](http://www.sciencedirect.com) for more information.

